



N49SJ Checklist USDOI Call Sign "Interior 05"

Before Start Checklist

Trim	Zero, Aero, Set
Parking Brakes	On, Pressure Normal
Boost Pumps	Checked, Primary ON
Fuel	Normal, xxxx Pounds
Wing Tanks	Off, xxxx Pounds
Avionics	Off
Compass Slaving	Normal
Marked Bug	Number Set
Instruments	Zero __ (deg)
	Normal Flags
Altimeters	Set
Auto Feather	Off
Fire Panel	Checked and Normal
Ignition	Normal and Both
Power Levers	Idle
Props	Feather/Forward
Fuel Levers	Cut Off
Generators	Off
Bus Tie	Normal
Cabin Signs	As Required
Ice Protections	Off
Inverter	NO. 1/ NO. 2
Circuit Breakers	Normal
Hyd. Pump Breaker	IN, Pressure OK
When Ready to Start	Beacon On

Before Taxi

Engine Instruments	Normal
Instruments	Zero __ (deg)
	Normal Flags
Door Lights	Out/ As Required
GPU	Off, Disc, Battery ON
Props	Forward
Generators	On, Volts and Amps
	Normal
Lights	Set

Before Take Off

Controls	Free
Trim	Zero, Aero, Set
Fuel	Normal, Fwd. /Aft. Boost On
Note: You May Set the GPS in the Flight Planning Menu for Fuel Flow	
Instruments	Zero __ (deg)
	Normal Flags
Auto Feather	Selected
Engine Instruments	Normal
Radios/Course/GPS	Set __ (alt.) __ (deg)
Line	
Transponder	Alt/ON
Bleeds	Off (On)
Props	Forward
Flaps	Take Off/ Verify
Ice Protection	Off (On)
Caution Panel	Normal
➤ Going into Position	
Altitude & Heading	Zero __ (deg)
Lights	On

Take Off Torque Pressure* OAT – DEGREES F

P. Alt	30°	40°	50°	60°	70°	80°	90°	100°
MSL	Torque pressure = 50						49	46
1000							47	45
2000					48	46	43	
3000					48	46	44	42
4000				49	47	44	42	40
5000				49	47	45	43	41
6000		49	47	45	43	41	39	37
7000	49	47	45	43	41	39	37	36
8000	47	45	43	41	39	38	36	34

* Heater off, ID retracted, See AFM for bleed corrections and engine limits

Normal Take Off, Flaps 10

Weight #	VR	V2	VZF	PE	PN
12,500	69	79	100	5	7
12,000	68	77	98	6	8
11,500	66	76	96	6	9
11,000	65	74	94	6	9
10,500	64 *	72	91	7	10
10,000	64 *	70	89	7	11
9,500	64 *	70	87	7	12

Enroute Climb at VZF Vzf

Note * Vr = Vmc at W<11,000

Nominal empty weight at 7,500#

Climb Torque Pressure - 91% NP OAT in Degrees C

P Alt	-20°	-10°	0°	+10°	+20°	+30°
6000	50	50	47	43	40	36
8000	49	46	43	40	37	33
10000	45	43	40	37	34	30
12000	42	39	37	34	31	28
14000	38	36	33	31	28	25
16000	37	35	32	30	28	--
18000	34	32	30	28	--	--
20000	31	29	27	25	--	--

* Heater off, ID retracted, See AFM for bleed corrections and engine limits



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Climb Check List

Auto Feather	Off
Engine Instruments	Normal
Flaps	Up
Cabin Signs	As Required
Ice Protections	Off (On)
Nose Wheel	Centered

Cruise Check List

Engine Instruments	Normal
Fuel System	Manage/ Monitor

Descent Checklist

Engine Instruments	Normal
Fuel System	Manage/ Monitor
Wing Tanks	Off
Cabin Signs	On

Normal Approach, Flaps 20

Weight #	Ref	VAP	VZF
12,300	80	82	99
12,000	79	81	98
11,500	77	79	96
11,000	76	78	94
10,500	74	76	91
10,000	72	74	89
9,500	70	74	87
9,000	68	74	87

For flaps 10 landing add 3 knots to V ref and Vzf

Approach Checklist

Brakes	Checked, Pressures Normal
Instruments	____ (deg) Normal Flaps
Altimeters	____ Inches ____ Feet
Lights	On
Ice Protection	Off (On)
Circuit Breakers	Normal

Landing Check List

Flaps	Landing
Props	Forward
Marked Bug	Number Set
Nose Wheel	Centered

After Clearing the Runway

Radar/ Transponder	Off
Flaps	Up
Ice Protection	Off

Parking

Brakes	
Radio Master	Off
Power levers	Idle
Generators	Off
Lights	Off
DC Master	Off
Battery	Off
Control Lock	Install

STOL OPERATIONS ONLY

STOL Take Off, Flaps 20

Weight #	Ref	VAP	VZF
12,300	51	75	100
12,000	50	73	98
11,500	48	72	96
11,000	47	70	94
10,500	46	69	91
10,000	44	67	89
9,500	43	65	87

Note, Vr is below Vmc (64)

STOL Approach, Flaps 37.5

Weight #	Ref	VAP	VZF
12,300	70	82	99
12,000	69	81	98
11,500	67	79	96
11,000	66	78	94
10,500	64	76	91
10,000	62*	74	89
9,500	61*	74	87

*Vref < Vmc at W < 10,500

Smokejumper Checks

Lights	On
Props	As Required
Flaps	Set (10)

Paracargo Checks

Lights	On
Flaps	Set
Props	As needed
Emergency Boost Pumps	Off (On)

First Flight of the Day Checks

Auto Feather	Test
Prop Governor	Test
Fire Bell and Lights	Test
Beta Back Up System	Test
TCAS	Test
TAWS	Test
NOTE: The TAWS system takes several minutes before it's online and may not test immediately.	
Cockpit Voice Recorder	Test

N49SJ Specific Items

Batteries	Lead Acid
Engines	PT 6-34
Avionics:	1 Garmin 530
	1 Garmin 430
	2 NAT FM Radios
	1 Class B TAWS System
	Interfaced with both Garmin Nav. Coms. and the TAWS System
	Fuel Flow interfaced with both Garmin Nav Coms within the Flight Planning Menu
TCAS1	
Fuel	